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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		See Notification	n of Transmittal of International		
00947	FOR FURTHER ACTI	Preliminary Exa	amination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day	umonth/year)	Priority date (day/month/year)		
PCT/EP 03/11180	08.10.2003		28.10.2002		
International Patent Classification (IPC) or be G01N33/574	oth national classification and	IPC			
Applicant PHARMACIA ITALIA SPA et al.					
This international preliminary exa Authority and is transmitted to the	mination report has been per applicant according to Ar	orepared by this Inte ticle 36.	ernational Preliminary Examining		
2. This REPORT consists of a total of 5 sheets, including this cover sheet.					
l and oro tho	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of sheets.					
3. This report contains indications i	elating to the following iter	ns:			
II Priority					
III 🛛 Non-establishment o	f opinion with regard to no	velty, inventive step	and industrial applicability		
IV	ntion				
V M Possoned statement	t under Rule 66.2(a)(ii) with ations supporting such stat	n regard to novelty, tement	inventive step or industrial applicability;		
VI Certain documents of					
,	e international application				
	on the international applic	cation			
Date of submission of the demand		Date of completion of	this report		
24.03.2004		25.11.2004			
Name and mailing address of the international preliminary examining authority:		Authorized Officer	ordense Princes		
European Patent Office D-80298 Munich		Giry, M			
Tel. +49 89 2399 - 0 Tx: 52 Fax: +49 89 2399 - 4465	3656 epmu d	Telephone No. +49 8	39 2399-7328		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/11180

l.	Basis	of the	report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages					
	1-8	•	as originally filed				
	-1 :	Namahara					
		ms, Numbers	as a riginally filed				
	1-10		as originally filed				
2.	With lang	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ilable or furnished to this Authority in the following language: , which is:				
		the language of a trar	nslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of public	cation of the international application (under Rule 48.3(b)).				
		the language of a train Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under				
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inter	national application in written form.				
		filed together with the	e international application in computer readable form.				
			itly to this Authority in written form.				
		furnished subsequen	itly to this Authority in computer readable form.				
		The statement that the international a	he subsequently furnished written sequence listing does not go beyond the disclosure polication as filed has been furnished.				
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence				
4	. The	e amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5	i. 🗆	been considered to	n established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).				
		(Any replacement si report.)	heet containing such amendments must be referred to under item 1 and annexed to this				
6	6. Ad	Iditional observations,	if necessary:				

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International application No.

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III.	Non	-establishment of opinion wit	h rega	ard to novel	ty, inventive step and industrial applicability	
1.	The obvi	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:				
		the entire international applicati	ion,			
☑ claims Nos. 1-8						
		because:				
the said international application, or the said claims Nos. 1-2, 5-8 with respect to industrial application relate to the following subject matter which does not require an international preliminary examination (specify):						
		see separate sheet				
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 1-8 are so unclear that no meaningful opinion could be formed (specify):					
see separate sheet						
	Ø	the claims, or said claims Nos. 1-8 are so inadequately supported by the description that no meaningful opinion could be formed.				
		no international search report h	nas be	en establishe	ed for the said claims Nos.	
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:				
		the written form has not been f	urnish	ed or does n	ot comply with the Standard.	
		the computer readable form ha	ış not l	been furnish	ed or does not comply with the Standard.	
٧.	Rea cita	soned statement under Artic tions and explanations suppo	le 35(2 orting	2) with regai such staten	rd to novelty, inventive step or industrial applicability; nent	
1.	Sta	tement				
	Nov	velty (N)	Yes: No:	Claims Claims	9-10	
	Inve	entive step (IS)	Yes: No:	Claims Claims	9-10	
	Indi	ustrial applicability (IA)	Yes: No:	Claims Claims	9-10	

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- Claims 1-2 and 5-8, due to the step of "detecting CYP3A levels in said patient" 1. (claims 1-2 and 7-8) and to the step of "obtaining a biological sample from a patient" (claims 5-6) relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(I) PCT.
- Claim 1 relates to a "method for treating a patient in need of a drug metabolized 2. primarily by CYP3A" which is however only characterized by a detection step (!). Consequently, claim 1 as disclosed does not enable the skilled person to determine which technical features are necessary to perform said method rendering the comparison to the prior art impossible. Therefore, the matter for which protection is sought is so unclear that no meaningful examination as regard to novelty and inventive step for the subjectmatter of claims 1-2 is possible (Art. 5 PCT and Art. 6 PCT).
- Independent claim 3 relates to a "method for optimizing the therapeutic efficacy of 3. a drug metabolized primarily by CYP3A in a patient in need thereof, which is merely characterized by "selecting a therapeutically effective amount of said drug based on the previously detected CYP3A levels" (?). However, the skilled person is left quessing how this amount is selected. The description mentioning "a (?) math formula can be applied to calculate a starting dose" (??) (p. 5, lines 28-32) is of no help whatsoever. The same comment holds true for the "method for treating a cancer sensitive to a drug metabolized primarily by CYP3A" according to independent claim 5. Therefore, the matter for which protection is sought is so unclear that no

meaningful examination as regard to novelty and inventive step for the subject-

The present wording of independent claim 7 relating to a "method of predicting 4. patient's sensitivity to a drug" does not contain any technical feature. Thus, it is not possible to assess claims 7-8 for novelty and inventive step in the sense of Art. 33(2) and (3) PCT.

matter of claims 3-6 is possible (Art. 5 PCT and Art. 6 PCT).



Re Item V

A.

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 - Reference is made to the following document :

D1: EP-A-1 088 900, 4 April 2001

2 - Novelty - Art. 33(1) and (2) PCT:

Document D1 reports on polymorphisms in the human CYP3A4 genes and their use in diagnostic and therapeutic applications and discloses a kit for detecting the amount of CYPA isoforms (p. 12-13, paragraphs 68-69). Said disclosure falls within the scope of the subject-matter of present claims 9-10 which can therefore not be considered as novel.

Re Item VIII

Certain observations on the international application

- The application provides no example of the methods subject-matter of claims 1-8. 1. Therefore, the subject-matter of said claims is not supported by the description (Art. 6 PCT) which does not disclose the invention in a manner sufficiently clear and complete for it to be carried out by the person skilled in the art (Art. 5 PCT). Moreover, the description does not provide any example of the best mode contemplated by the applicant for carrying out the invention claimed (Rule 5.1a)v) PCT; see also PCT Guidelines II-4.9).
- The subject-matter of independent claim 9 is unclear since the kit to which said 2. claim relates lacks any technical feature. Thus, claims 9-10 are to be interpreted as "a kit suitable for detecting the amount of CYP3A" (Art. 6 PCT).